

# Private Lands

## Balancing Opportunities for Pheasants and Farming Forever

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PF & QF VP of Governmental Affairs



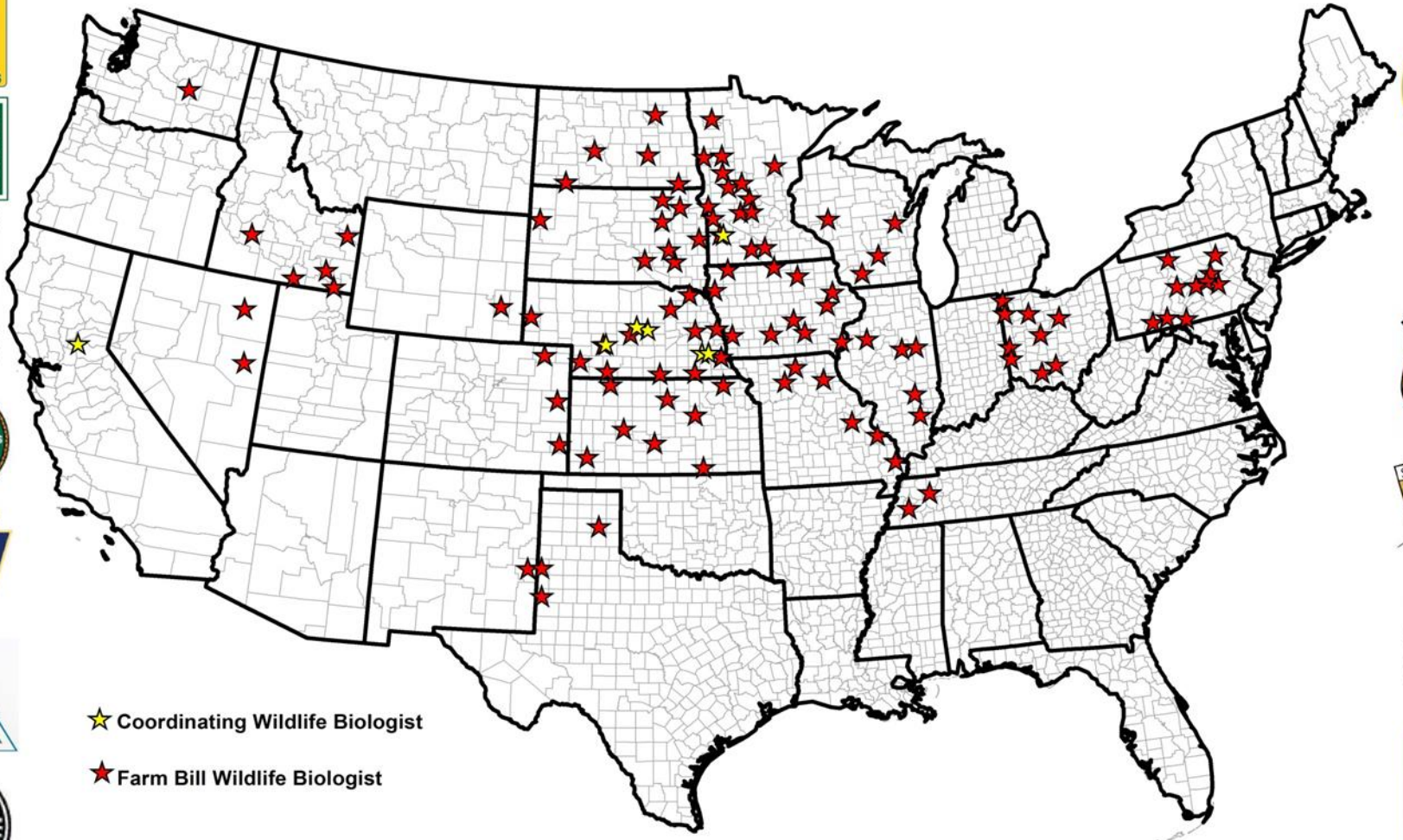




Nebraska Game and Parks Commission



# Farm Bill & Coordinating Wildlife Biologist Program



★ Coordinating Wildlife Biologist

★ Farm Bill Wildlife Biologist





# Farm Bill Wildlife Biologist Program

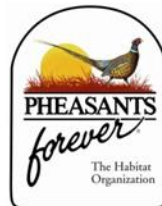
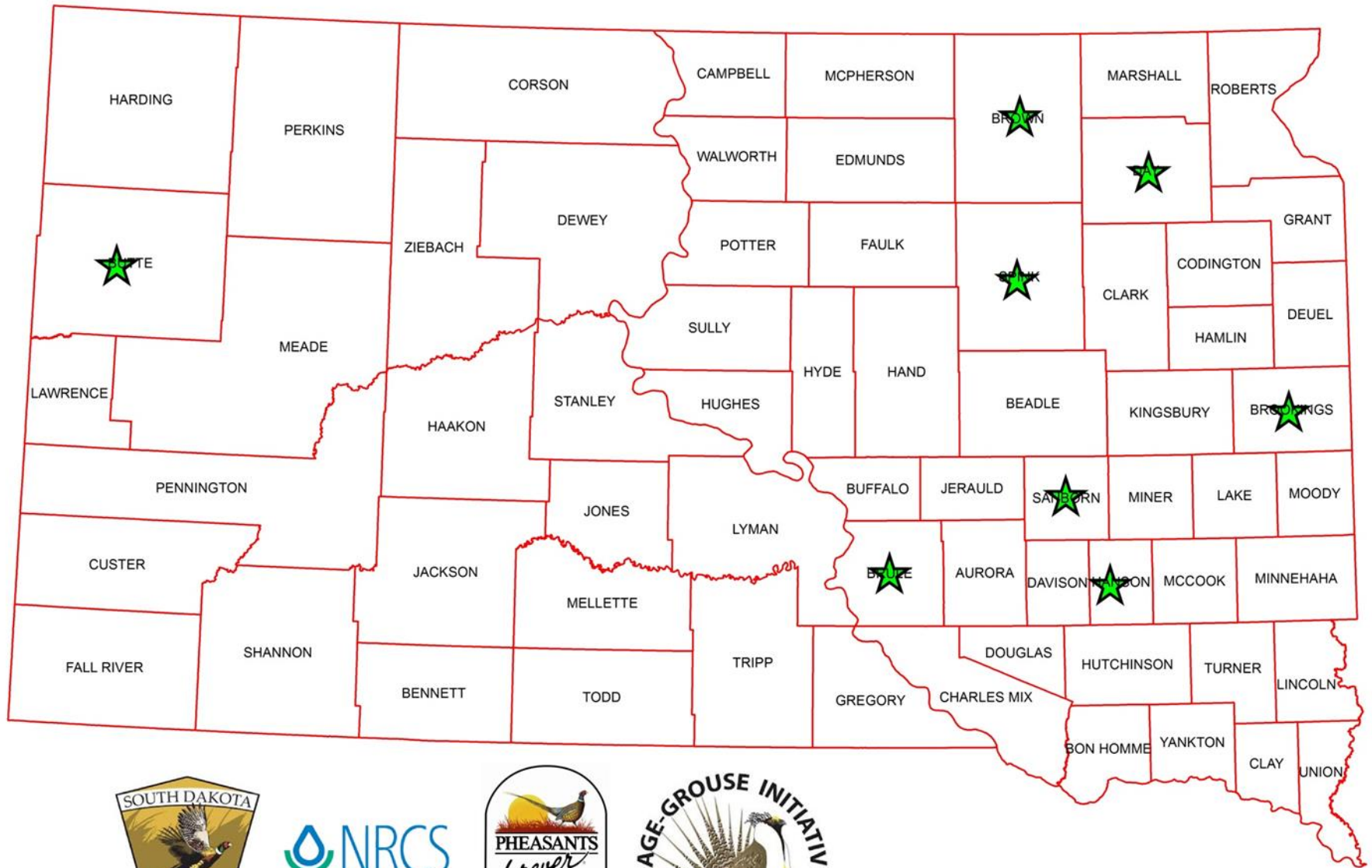
- Start
  - SD 2003
  - 4 positions
    - Parker, Brookings, Selby, & Aberdeen
- Current
  - 111 Positions
  - 19 States
- Stats
  - Impacted 3.85 million acres
  - 124,000 projects

State	Year Partnership Implemented	Current Number of Biologists
South Dakota	2003	8
Nebraska	2004	17
Minnesota	2004	11
Ohio	2005	8
Wisconsin	2007	6
North Dakota	2008	5
Iowa	2009	12
Illinois	2010	5
Kansas	2010	8
Colorado	2010	3
Idaho	2010	5
Pennsylvania	2011	7
Missouri	2011	6
Washington	2011	1
Nevada	2011	2
Texas	2011	3
New Mexico	2011	1
Wyoming	2012	1
Tennessee	2013	2





# South Dakota Farm Bill Wildlife Biologist Program





# SD Farm Bill Wildlife Biologist Highlights

- Since 2003
  - 860,000 ac. impacted
  - 6,250 Landowner Contacts
- 2013 Highlights
  - CRP – 25,386 ac.
  - EQIP – 14,815 ac.
  - WHIP – 44,053 ac.
  - State – 3,291 ac.
  - Land Contacts – 1,659
  - Workshops – 28





# Programs From Around The Country

## Iowa





# Iowa Habitat & Access Program

- IHAP
  - Started 2013
    - Increase public hunting access through offering landowners funds for habitat improvement
  - Funding
    - 3 yr.
    - \$1.5 million USDA grant
  - Staff
    - 19 full time
  - Results
    - 1,366 acres in pilot year 2013





## IHAP Continued



Iowa Habitat & Access Program Incentive Rates	
Project components not receiving financial incentive through a different conservation program	
Practice	IHAP Incentive (per ac. Not to exceed)
Mowing	\$20.00
Herbicide Application	\$30.00
Herbicide Application with pre-emergent	\$80.00
Native Seed (Tall Grass/Winter Cover)	\$150.00
Native Seed (Diverse/Nesting Cover)	\$200.00
Planting w/ native seed drill	\$40.00
Planting w/ broadcast seeder	\$40.00
Annual Large Grain Foodplot (Corn Soybeans)	\$220.00
Annual Small Grain Foodplot (Sorghum, Wheat, Sunflower, Millet, ect.)	\$150.00
Legume Foodplot	\$120.00
Interseeding Legumes	\$60.00
Disking (minimum 3 passes)	\$45.00
Edge Feathering	\$200.00
Brush Management (<25% Canopy)	\$120.00
Brush Management (25-60% Canopy)	\$280.00
Brush Management (>60% Canopy)	\$400.00
Timber Stand Improvement	\$180.00
Prescribed Burning	\$60.00
Wetland Restoration (cubic yard)	\$2.50
Noxious Weed Management	\$50.00
Tree/Shrub Planting	\$650.00





# Resource Enhancement & Protection



- REAP
  - 1989
    - Enhance & Protect Iowa's Natural & Cultural resources by providing cost share distributed to Conservation Districts to be spent within their counties.
    - Funding
      - IA gaming & special license plate sales
      - Avg. \$11.7 mil annually
    - Staff
      - Utilizes partner staff
    - Results
      - Used on both public and private lands.



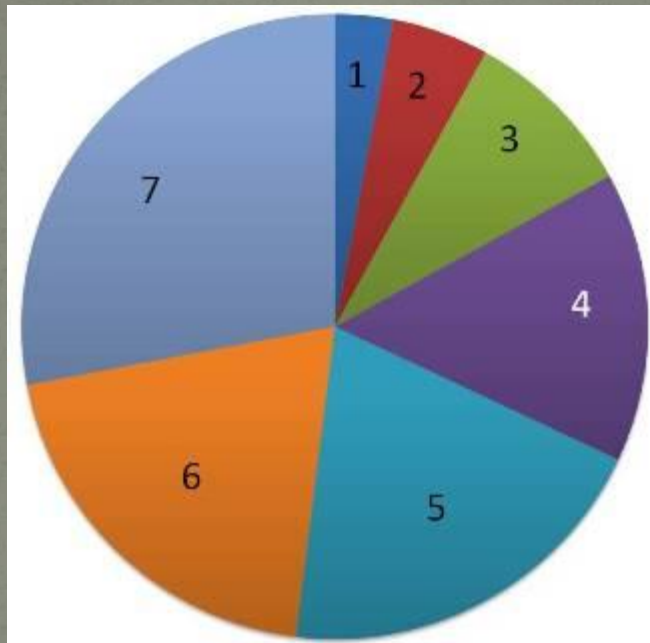


# REAP FUNDING ALLOCATION

First \$350,000 annually goes to Conservation Education

1% of Balance goes For DNR Administration

Remaining funds are divided according to chart below



1. [Roadside Vegetation](#) 3%

2. [Historical Resources](#) 5%

3. [Public Land Management](#) 9%

4. [City Parks and Open Space](#) 15%

5. [Soil and Water Enhancement](#) 20%

6. [County Conservation](#) 20%

7. [State Open Space](#) 28%

8. The following four state agencies administer REAP programs:

Department of Natural Resources

9. Department of Agriculture and Land Stewardship, Division of Soil Conservation

10. Department of Cultural Affairs, State Historical Society

11. Department of Transportation





# Iowa Financial Incentive Program

- IFIP
  - Cost Share provided to landowners for agricultural
  - Funding
    - \$6.5 million
    - Gaming receipt's and general funds
  - Results
    - Cost share rate of 50% which makes it not as competitive for grass and habitat planning but it is used for ag practices like cover crops, no-till, field borders, & pasture renovation





# Colorado





# Pheasant Habitat Improvement Program

- PHIP
  - Initiated 1992
    - Increase pheasant and hunter success in 5 core counties through cost share of eligible practices
  - Funding
    - Funding varies by year with money coming from CO P&W Game Fund
  - Staff
    - Contracted with local PF chapters (Volunteers) to promote and conduct habitat work. Also funds 3 PF FBWB staff.





# PHIP

- Results
  - Created 115,000 ac. of new habitat
  - Enhanced 200,000 ac. of habitat through MGMT
  - 2001 – Walk in Access added to the program
    - Currently 250,000 ac. enrolled





# Illinois





# Illinois Acres for Wildlife Program

- Landowner Assistance Program to provide help in protecting, improving, and developing wildlife habitat
- Funding
  - Illinois Habitat Stamp Funds
- Staff
  - 6 Illinois DNR private lands biologist along with 5 PF FBWB's





# Illinois Acres for Wildlife Program

- Activities
  - Management Plans and Habitat Assessment development
  - Provides Free Native Grass & Forb seeds and Tree Seedlings
  - Loans Out Specialty Equipment (Grass Drills, Tree Planters)
  - Assistance in finding cost-share programs such as CRP, CREP, Partners for Wildlife





# Minnesota





# Re-Invest in Minnesota

- RIM
  - Initiated 1986
  - Has 3 Separate Programs
  - Funding ran through MN Board of Water & Soil Resources (MN BWSR)
  - Staff
    - 3 DNR staff
    - 11 PF FBWB
    - Other District and NGO staff





# RIM - Buffers

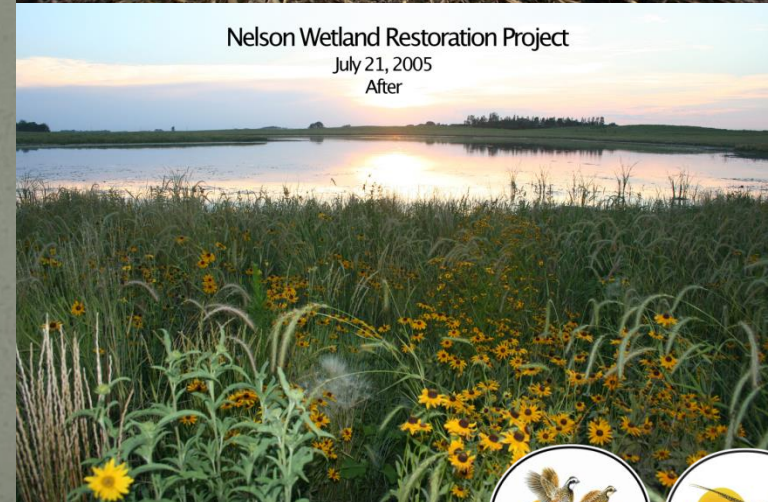
- Goal to decrease sediment, pollutant, & nutrient transport while increasing infiltration for groundwater recharge
- Conservation Easement Program
- Funding
  - Source: Clean Water and Outdoor Heritage Fund
    - Clean Water: \$6.5 Mil
    - Outdoor Heritage: \$3.52 Mil
- Provides a payment and cost share to establish a buffer between 50 and 700 ft. on riparian areas adjacent to public waters





# RIM – Well Head Protection

- Goal to establish permanent grassland cover in areas where the vulnerability of the of drinking water is high
- Permanent Easement retiring land from agricultural production
- Funding
  - Clean Water Fund
  - FY13 - \$1.3 Mil
- To date RIM buffers and Well Head have recorded **3,098** easements on **84,359** acres





# RIM – WRP Partnership



- Purpose is to achieve the greatest wetland functions while optimizing wildlife habitat
- Couples RIM funds with WRP funds to maximize results on drained wetlands and adjacent uplands
- Funding
  - Outdoor Heritage Fund
  - FY14 - \$13.39 Mil OHF
- Results
  - **393** RIM/WRP easements on **35,632** acres





# Native Prairie Bank



- Initiated 1987
- Native Prairie protection on private lands
- Permanent Easement on Native Prairie sites of medium to high quality
- Funding
  - Outdoor Heritage Fund & Legislative-Citizen Commission on MN Resources
  - \$5 - \$10 Mil annually
- To date **111** easements on **8,990** acres





# Cost Share Assistance Programs

- **Prairie Tax Exemption**
  - In exchange for restoring native prairie landowner becomes exempt from property taxes
  - To date **500** Landowners on **20,000** ac have participated
- **Walk-in Access**
  - Provides public access to private lands
  - Funding
    - \$2.7 mil from Farm Bill
    - \$5.00 surcharge on Non Resident Deer Tag
    - \$3.00 validation on Resident Hunting license
- **Working Lands Initiative**
  - Provides assistance to enhance and restore habitat on working lands
  - Funding
    - Game & Fish Fund
    - Heritage In Lieu of Taxes Fund
    - \$1 mil annually
- **MN DOT Living Snow Fence**
  - Install living snow fence plantings along sections of state maintained highways
  - Funding
    - MN DOT
    - Provides cost share and land payment for planting pollinator habitat in conjunction with snow fence





# North Dakota





# Private Lands Open to Sportsmen

- PLOTS
  - Initiated 1950's
    - Current form 1990's
  - Developed to provide public access to private lands and also to provide cost share assistance to conserve and develop wildlife habitat
  - Funding
    - Interest off General Fund, Legislative Appropriation, & Habitat Stamp
    - \$4 Mil Annually
  - Staff
    - 12 Full Time Positions





# Save Our Lakes Program



- Program used to develop projects to enhance and restore aquatic habitat to protect fisheries resources
- Pays for the installation of buffers along riparian habitat and permanent lakeshores
- Funded from General Fund
  - \$400,000 annually





# Nebraska



- Staff
- Approximately 8 NEGPC
  - 17 PF FBWB





# Focus On Pheasants

- Started 2002
  - Provide focused pheasant habitat improvement.
  - Projects are typically on county sized areas to maximize & focus results.
  - Funding
    - Pheasants Forever, NE Game & Parks Commission, NE Environmental Trust Fund
    - \$412,000 Annually





# Focus On Pheasants

- Activities
  - Wheat and milo stubble height mgmt, est. of nesting cover, Est. of shrub thickets
- Results
  - Annually: 20,000 ac.
  - Historical: 240,000 ac.





# Corners For Wildlife

- Started 1995
  - Provides an annual rental payment (up to \$100/ac) for 5 yrs to est. habitat on the corners of center pivot fields
  - 75% cost share for grass seed, shrubs, and other materials
  - Funding
    - Pheasants Forever, NE Game & Parks Commission, NE Environmental Trust
    - \$365,000 annually





# Grassland Improvement Program



- Started 2007
  - Provides a rental payment to defer grazing on rangeland.
  - Normally tied to conducting Rx fire to control invasive plant species or start a rotational grazing system
  - Funding
    - PF, NE GPC, NE ETF
    - \$310,000 annually
  - Results
    - 950 acres annually
    - Interest exceeds funding





# Prescribed Fire Partnership

- Started 2008
  - Increase the use of safe & effective Rx fire on private lands.
  - Addresses 3 limiting factors
    - Training
    - Access to Equipment
      - Equipment Cache's
    - Man Power
      - Rx Fire Burn Associations





# Prescribed Fire Partnership

- Funding
  - PF, NE GPC, NE ETF
  - \$80,000 annually
- Results
  - 6,500 acres annually





# Open Fields & Waters

- Started 1997
  - Provide public access to private land
  - Provides \$1 to \$15 per acre
  - Funding
    - PF, NE GPC, USDA
    - \$1,000,000 annually
  - Results
    - 275,000 acres open annually





# Idaho





# Private Lands Programs

- Habitat Improvement Program
  - Conduct habitat improvement projects for upland game and waterfowl
  - Funded by State License Dollars
    - \$300,000 annually
- Idaho Watershed Initiative
  - Conduct large scale habitat projects in Southern ID to clean up imperiled waterways
  - Funded by State License Dollars
    - \$250,000 and requires 50% match
- Mule Deer Initiative
- Access Yes





# Indiana





# Pheasant & Quail Habitat Incentive Program

- Initiated 1979
  - Designated priority areas focused on pheasant & Quail habitat mgmt
  - Provides mgmt plan and cost share to implement





# Classified Forest & Wildlands Program



- This program provides a property tax reduction to landowners enrolling 10 acres or more of forest or grassland habitat.
- Must follow a mgmt plan developed by DNR
- Reduces the assessed value of enrolled land by \$1 per acre.





# Game Bird Habitat Development Program

- Initiated 1979
  - Landowner enrolls 10 – 40 acres of land for habitat development
  - Landowners reimbursed for habitat work up to \$100/ac.
  - Funding
    - Source: Game Bird Habitat Restoration Stamp
    - \$100,000 annually





# Wildlife Habitat Cost Share Program

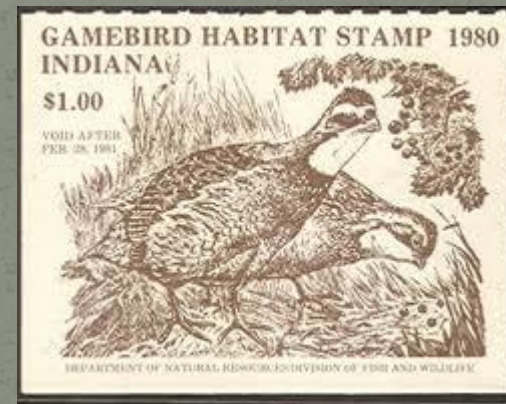
- Initiated 1979
  - Developed to create wildlife habitat on private lands with an emphasis on small game and wetlands
  - Cost share provided to implement a plan that is developed by a DNR biologist
  - Funding
    - General Fish and Wildlife Fund
    - \$50,000 annually





# Game Bird Partnership Program

- Initiated 1979
  - Developed to create game bird habitat on private lands through partnerships with NGO's
  - IN DFW provides funds up to \$1000 per landowner and NGO provides additional funds and labor to implement projects
  - Funding
    - Game Bird Habitat Restoration Stamp
    - \$30,000





# Montana





# Upland Game Bird Enhancement Program



- UGBEP
  - Developed to enhance upland game bird habitats, populations, and hunting opportunities
  - Cost Share program for habitat development
  - Funding
    - License sales
      - A set portion of the follow lic go into this fund
        - » Res Up Game - \$2
        - » Non Res Up - \$23
        - » Combo Lic - \$2
        - » Non Res Big Game - \$23
- FY13 - \$611,000





# Habitat Montana

- Initiated 1987
  - Goal of protecting critical wildlife habitats across MT
  - Easements and Cost Share to develop mgmt on easement lands (Livestock Grazing Systems, Fencing, H2O development, etc)  
Also used for WMA operations and mgmt
  - Funding
    - License sales of big game permits
- Results
  - 285,395 acres
    - 79% easements
    - 4% lease
    - 17% fee title





# Open Fields Program

- Started 2013
  - Public access to private lands
  - Provides \$5/ac of CRP up to 160 ac.
  - Funding
    - USDA VPA-HIP grant
      - \$306,271
  - Results
    - 16,796 in the first year





# Michigan





# Private Lands Programs

- Goal of these programs is to meet or exceed habitat and species goals on private lands.
- Programs
  - Landowner Incentive Program – 2003
    - Provides technical assistance, mgmt plans, and funds for habitat restoration
  - Hunting Access Program – 1978
    - Private land access program
- Budget
  - Funding comes from general Game & Fish funds and VPA HIP grants
    - Total budget of \$1.1 mil
      - \$270,000 HAP





# Missouri



- Staff
- Approximately 70 MO DoC
  - 6 PF FBWB





# Landowner Habitat Cooperative Challenge Grant



- Provides matching grants to landowner habitat cooperatives for equipment, workshops, field days, and habitat projects
- Funding
  - Dedicated funding – 1/8 of 1% sales tax
  - \$20,000 annually





# Early Successional Habitat Challenge Grant

- Provide matching grants to partners interested in improving habitat for bobwhite quail and other early successional habitat
- Funding
  - Dedicated Funding – 1/8 of 1% sales tax
  - \$150,000 annually





# CRP Incentive Program

- Provide incentives to landowners who enroll in specific practices that benefit wildlife or implement mid-contract management on CRP acres
- Funding
  - Dedicated funding – 1/8 of 1% - sales tax
  - \$500,000 annually





# Landowner Assistance Funds

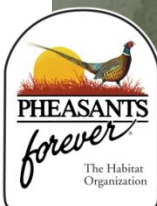
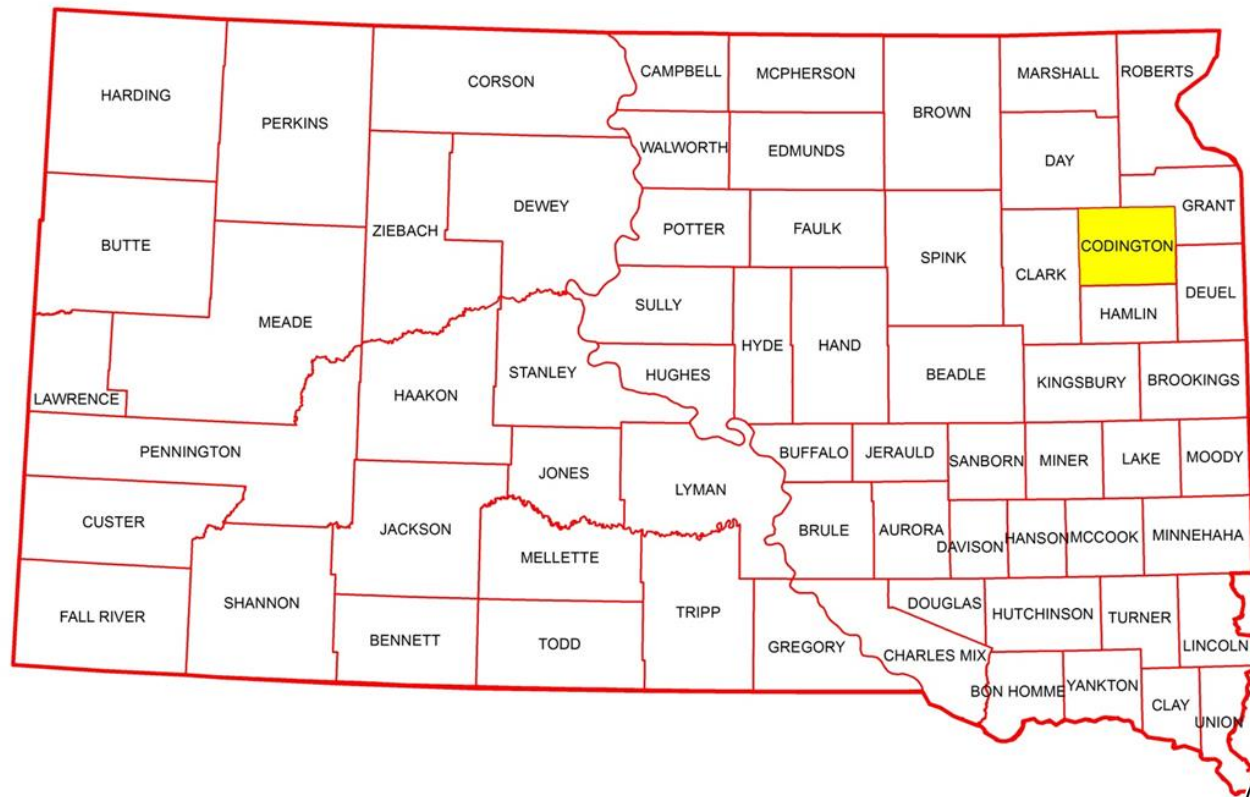
- Cost share for practice implementation on private lands
- Funding
  - Dedicated Funding – 1/8 of 1% sales tax
  - \$1,325,847 annually





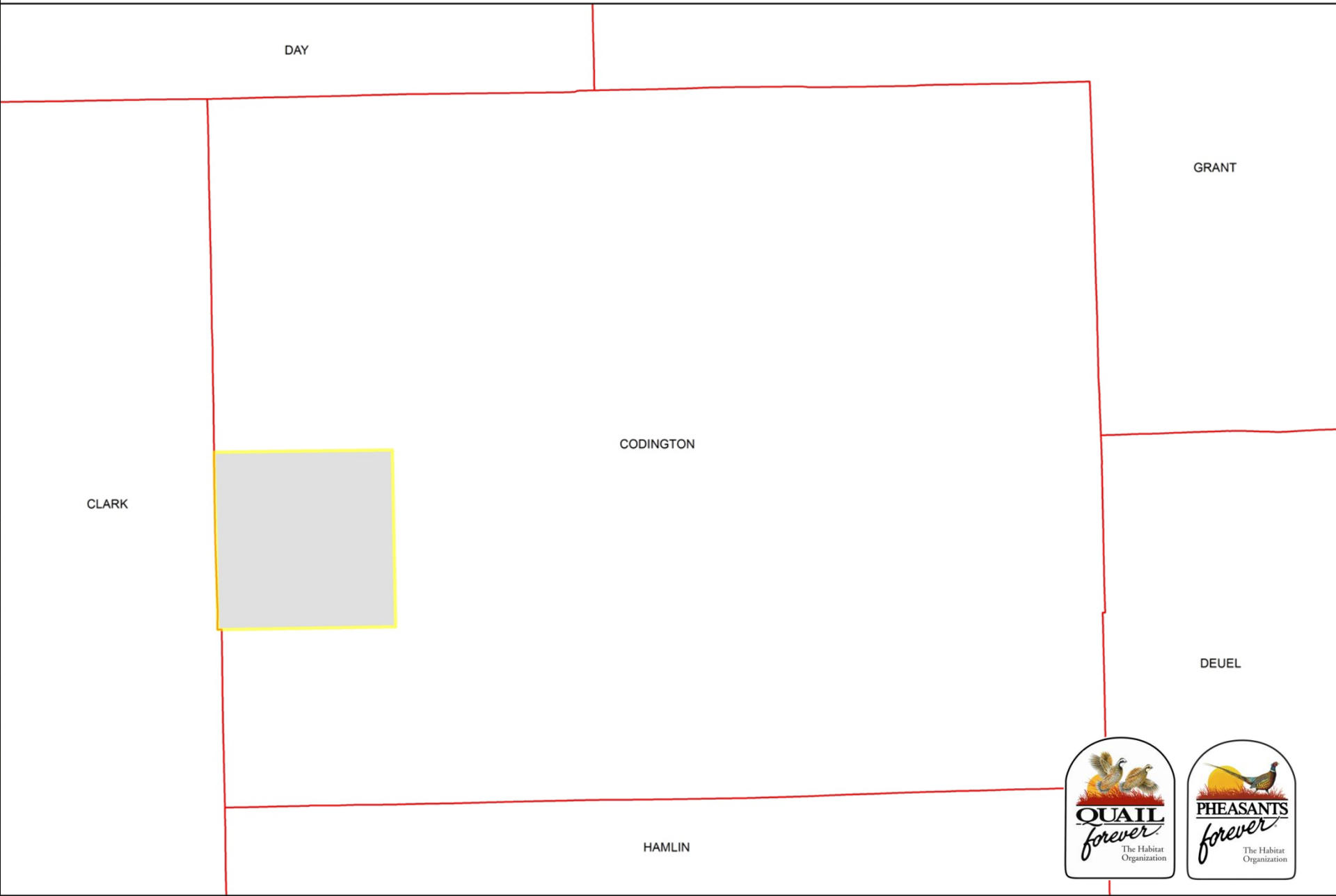
# What We Can Do

## Example 1: Graceland Township, Codington County





# Example 1: Graceland Township, Codington County





# Graceland Cropland Stats\*

\* 2013 NASS: data<http://nassgeodata.gmu.edu/CropScape/>

2007 Cropland Acres	
Crop	Acreage
Corn	4039.7
Soybeans	2965.6
Sunflowers	1.5
Spring Wheat	803.6
Winter Wheat	310.7
Oats	9.3
Alfalfa	303
Fallow/Idle Cropland	7
Wetlands	589.7
Open Water	4370.6
Developed/Open Space	792
Developed/Low Intensity	7
Developed/Medium Intensity	0.8
Barren	0.8
Deciduous Forest	184.4
Grass/Pasture	7364.1
Herbaceous Wetlands	909

2013 Cropland Acres	
Crop	Acreage
Corn	6149.9
Soybeans	3335.5
Sunflowers	0.4
Barley	0.2
Spring Wheat	370.3
Winter Wheat	9.3
Dbl Crop WinWht/Soybeans	0.7
Oats	23.8
Millet	3.1
Alfalfa	210.4
Other Hay/Non Alfalfa	155.9
Buckwheat	0.2
Fallow/Idle Cropland	198.8
Open Water	5307.4
Developed/Open Space	659.8
Developed/Low Intensity	8.5
Developed/Medium Intensity	0.7
Barren	0.2
Deciduous Forest	185.3
Grass/Pasture	5712.9
Herbaceous Wetlands	1009
Dbl Crop WinWht/Corn	1.3



# Cost Calculators & Yield Maps

2009	Winter Wheat	Fertilizer		
Summer BD	\$14.94	11-52-0	\$1,300.00	70
Fall Burndown 1	\$11.19	46-0-0	\$950.00	200
Fall Burndown 2		App.	\$5.50	
Spring Burndown 1		28-0-0	\$550.00	
Spring Burndown 2		TJ	\$1,150.00	0
Planting	\$25.00			
Seed	\$30.00			
Starter Fertilizer	\$45.50			
N Fertilizer	\$100.50			
Herb. Post Spray 1	\$42.18			
Herb. Post Spray 2				
Insecticide 1 with Herb.				
Seed Treatment	\$6.00			
Insecticide 1				
Fungicide 1 with Herb.				
Fungicide 2				
TJ Micromix	\$0.00			
Combining	\$35.00			
Agronomy				
Interest				
Land cost	\$60.00			
Crop Insurance	\$25.00			
Labor cost/person	\$0.00			
Storage	\$0.00			
Trucking	\$10.96			
Other	\$10.00			
<b>Total Expense/Acre</b>	<b>\$416.27</b>			
yield/acre Contracted	0.00	Total Average Yield	Months	
yield/acre	43.83	43.8	0	\$0.03
\$/bushel	\$7.50			
\$/bushel Contracted	\$6.95	Average \$ per bushel		
LDP	\$0.00	\$7.50		
Insurance Income	\$0.00			
Gov. payments	\$0.00			
<b>total income/A</b>	<b>\$328.73</b>			
<b>total profit/A</b>	<b>-\$87.55</b>			

\$41.73 Clear Field

0.075

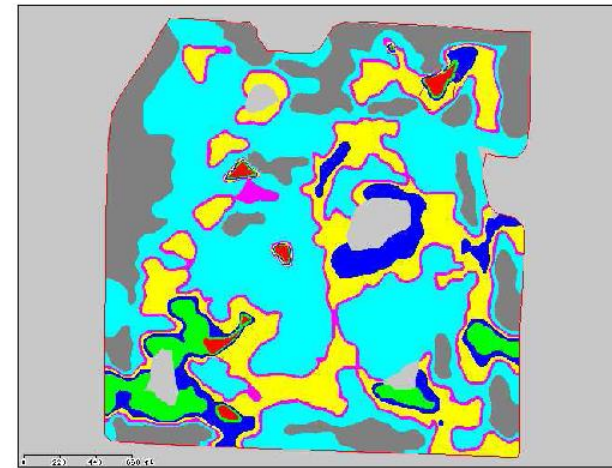
\$0.25 Trucking  
per/Bu

## Zone Maker

## Product List

Grower: Farm 1  
Farm: Home Place North  
Acres: 143.49  
Field(s): 2JM1  
Layer Data:  
(1) AgFleet Yield WHEAT - 2008

Wilbur Ellis  
AGRI-AIR Service  
329 W 249th Street  
Chamberlain, SD 57325  
PHONE: 605-734-3801

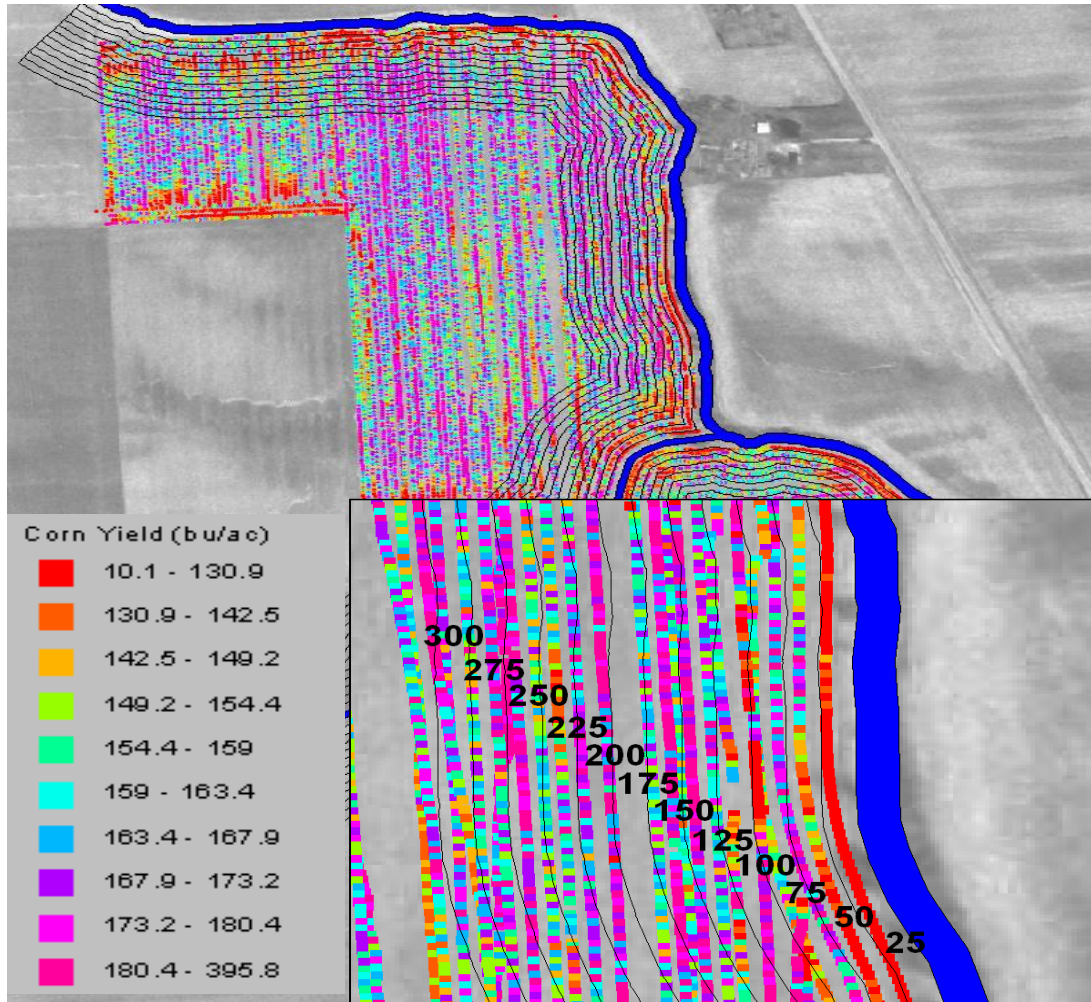


## Zone Rates

Zone	Acres	Zone Range	Custom
1	1.1	0.0 to 16.0	1.0(1)
2	5.9	16.0 to 27.0	1.0(6)
3	9.2	27.0 to 33.0	1.0(9)
4	26.6	33.0 to 40.0	1.0(27)
5	10.8	40.0 to 41.0	1.0(11)
6	57.5	41.0 to 51.0	1.0(58)
7	28.2	51.0 to 151.2	1.0(28)
Totals:			138.3



# CP-21 Example



- Average corn yield: 156 bu/acre.
- This field lies along an open ditch with drainage tile.
- \$150/acre cash rent (up about 25% in 3 years).
- Each band = 25 feet.
- Assumes minimum tillage, maintenance-level nutrient, \$4 diesel.
- Corn yield losses within 100 feet of stream or trees can equal 20-40% from wetness, compaction, competition, damage.
- For conventional tillage, add \$25/acre for fuel/equipment costs and 0-10% yield increase.
- Does not include \$\$ for labor, interest, USDA payments.











Expected Yield **156** bu./acre

LAND		Cost per Acre
Cash rent		<b>\$150.00</b>
<b>FERTILIZE/PLANT/SPRAY</b>		
Equipment amortization		<b>\$10.00</b>
Repair, maintenance, fuel		<b>\$15.00</b>
Total per acre		<b>\$25.00</b>
<b>Seed, Chemicals, etc.</b>		
Seed		\$63.00
<i>\$\$/1000 kernels</i>	<b>\$2.10</b>	
<i>kernels per acre</i>	<b>30,000</b>	
Nitrogen		\$102.00
<i>\$\$/pound</i>	<b>\$0.68</b>	
<i>pounds per acre</i>	<b>150</b>	
Phosphate		\$50.00
<i>\$\$/pound</i>	<b>\$0.50</b>	
<i>pounds per acre</i>	<b>100</b>	
Potash		\$35.00
<i>\$\$/pound</i>	<b>\$0.35</b>	
<i>pounds per acre</i>	<b>100</b>	
Lime (annualized \$\$)		<b>\$10.00</b>
Herbicide		<b>\$36.50</b>
Crop insurance		<b>\$40.00</b>
Total per acre		<b>\$386.50</b>
<b>HARVEST</b>		
Equipment amortization		<b>\$10.00</b>
Repair, maintenance, fuel		<b>\$15.00</b>
Haul		\$23.40
<i>\$\$ per bushel</i>	<b>\$0.15</b>	
Drying		\$15.60
<i>\$\$ per bushel</i>	<b>\$0.10</b>	
Total per acre		<b>\$64.00</b>
<b>Total Costs</b>		
Per acre		\$600.50
Per bushel		\$3.85
<b>Gross returns</b>		
Expected selling price	<b>\$5.50</b>	
Total returns		<b>\$858.00</b>
Net Returns		<b>\$257.50</b>

# FARM IT ALL

- Ditch to ditch, road to road, fencerow to fencerow.
- On average this field will produce \$257.50 per acre, for a total of \$25,750 on this 100 acre field.





Expected Yield **117** bu./acre

#### LAND

Cash rent **\$150.00**

#### FERTILIZE/PLANT/SPRAY

Equipment amortization **\$10.00**

Repair, maintenance, fuel **\$15.00**

**Total per acre \$25.00**

#### Seed, Chemicals, etc.

Seed **\$63.00**

\$\$/1000 kernels **\$2.10**  
kernels per acre **30,000**

Nitrogen **\$102.00**

\$\$/pound **\$0.68**  
pounds per acre **150**

Phosphate **\$50.00**

\$\$/pound **\$0.50**  
pounds per acre **100**

Potash **\$35.00**

\$\$/pound **\$0.35**  
pounds per acre **100**

Lime (annualized \$\$) **\$10.00**

Herbicide **\$36.50**

Crop insurance **\$40.00**

**Total per acre \$386.50**

#### HARVEST

Equipment amortization **\$10.00**

Repair, maintenance, fuel **\$15.00**

Haul **\$17.55**

\$\$/per bushel **\$0.15**

Drying **\$11.70**

\$\$/per bushel **\$0.10**

**Total per acre \$54.25**

#### Total Costs

Per acre **\$590.75**

Per bushel **\$5.05**

#### Gross returns

Expected selling price **\$5.50**

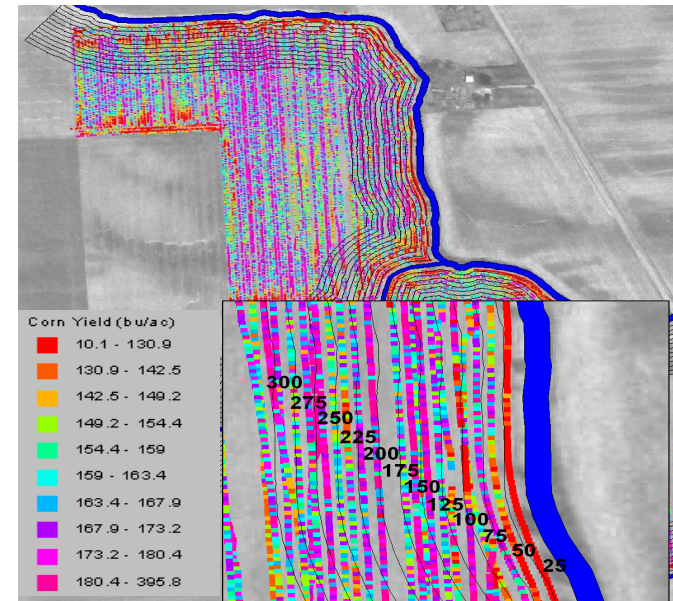
**Total returns \$643.50**

#### Net Returns

**\$52.75**

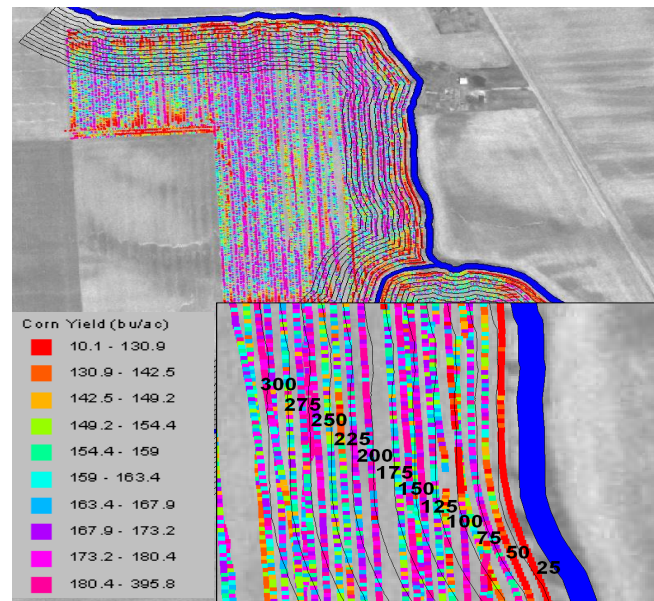
25% yield loss =  
**\$52.75** per acre

(20% to 40% loss is typical along edges near streams, ditches, etc.  
Losses can be higher along woodlots, heavy fencerows.)





- 100.0 acres @ 156 bu/acre
- - 11.5 acres @ 117 bu/acre
- = 88.5 acres @ 161 bu/acre





<b>Expected Yield</b>		<b>161 bu./acre</b>
<b>LAND</b>		<b>Cost per Acre</b>
Cash rent		\$150.00
<b>FERTILIZE/PLANT/SPRAY</b>		
Equipment amortization		\$10.00
Repair, maintenance, fuel		\$15.00
<b>Total per acre</b>		\$25.00
<b>Seed, Chemicals, etc.</b>		
Seed		\$63.00
<i>\$\$/1000 kernels</i>	\$2.10	
<i>kernels per acre</i>	30,000	
Nitrogen		\$102.00
<i>\$\$/pound</i>	\$0.68	
<i>pounds per acre</i>	150	
Phosphate		\$50.00
<i>\$\$/pound</i>	\$0.50	
<i>pounds per acre</i>	100	
Potash		\$35.00
<i>\$\$/pound</i>	\$0.35	
<i>pounds per acre</i>	100	
Lime (annualized \$\$)		\$10.00
Herbicide		\$36.50
Crop insurance		\$40.00
<b>Total per acre</b>		\$386.50
<b>HARVEST</b>		
Equipment amortization		\$10.00
Repair, maintenance, fuel		\$15.00
Haul		\$24.15
<i>\$\$ per bushel</i>	\$0.15	
Drying		\$16.10
<i>\$\$ per bushel</i>	\$0.10	
<b>Total per acre</b>		\$65.25
<b>Total Costs</b>		
Per acre		\$601.75
Per bushel		\$3.74
<b>Gross returns</b>		
Expected selling price	\$5.50	
<b>Total returns</b>		\$885.50
<b>Net Returns</b>		<b>\$283.75</b>

“Farm the Best”  
88.5 acres @ 161  
bu/acre

\$283.75/acre  
x 88.5 acres  
= **\$25112**

vs.

\$257.50/acre  
x 100 acres  
= **\$25,750**

in the “farm it all” scenario.

We are nearly break even  
(-\$638) without farming the  
worst 11.5 acres



# “Farm the best...Buffer the rest”

- Higher-Yielding Crop Acres:  
**\$283.75/acre x 88.5 acres = \$25112**
- CCRP CP21 Filter Strip Acres:  
**\$146.50 per acre x 11.5 acres = \$1684.75**
- **TOTAL REVENUE FOR THIS FIELD WITH CRP = \$26796.75**
  - Total revenue before CCRP: \$25750
- Producer earns **\$1046.75 more** on this field while farming less acres:
  - Less time
  - Less wear/tear on equipment
  - Less erosion/topsoil loss
  - Less nutrient runoff into streams, rivers, wetlands, etc.
  - Less carbon emissions
  - More wildlife



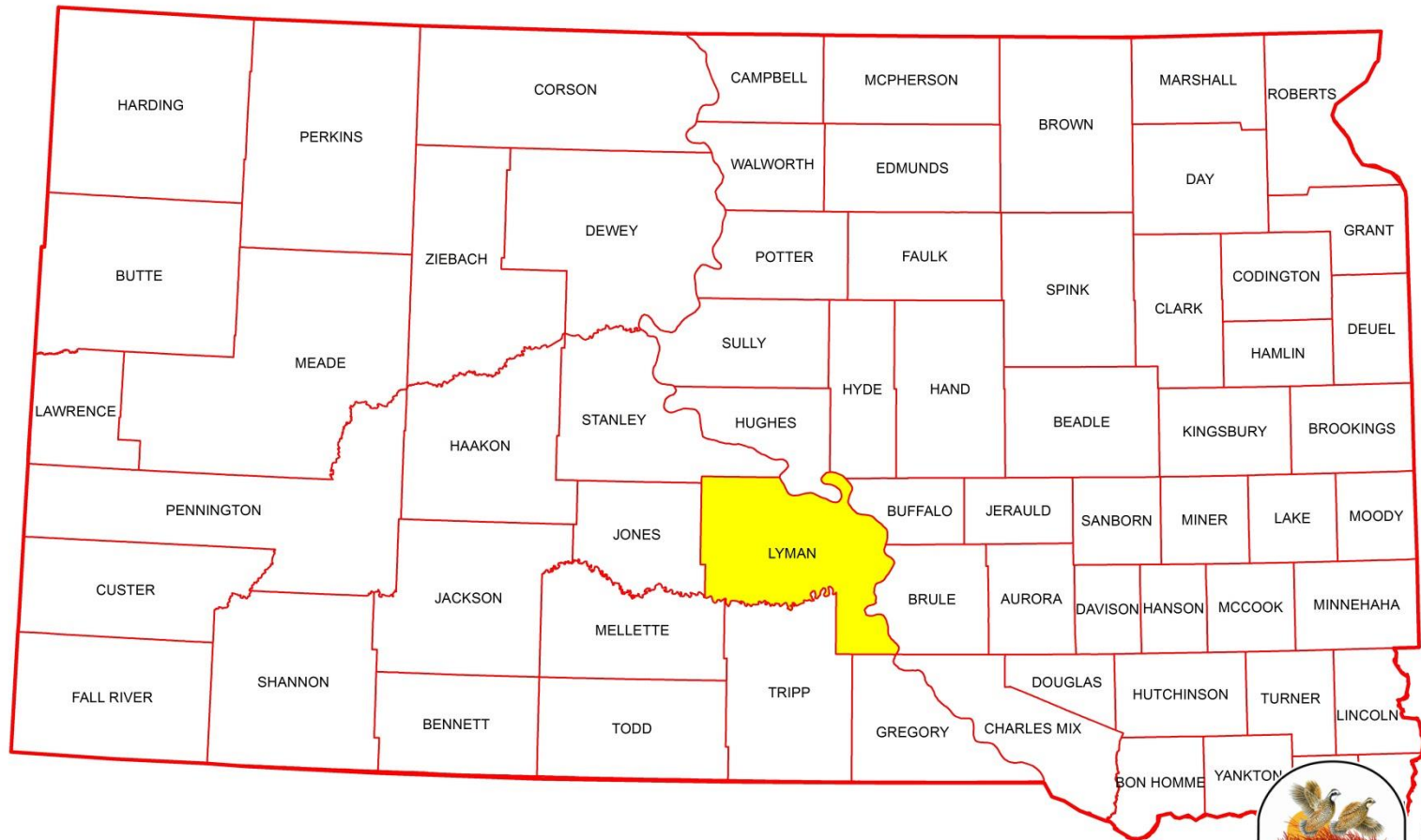


**Odd Area, Small Fields,  
Field Borders & Riparian Zones**



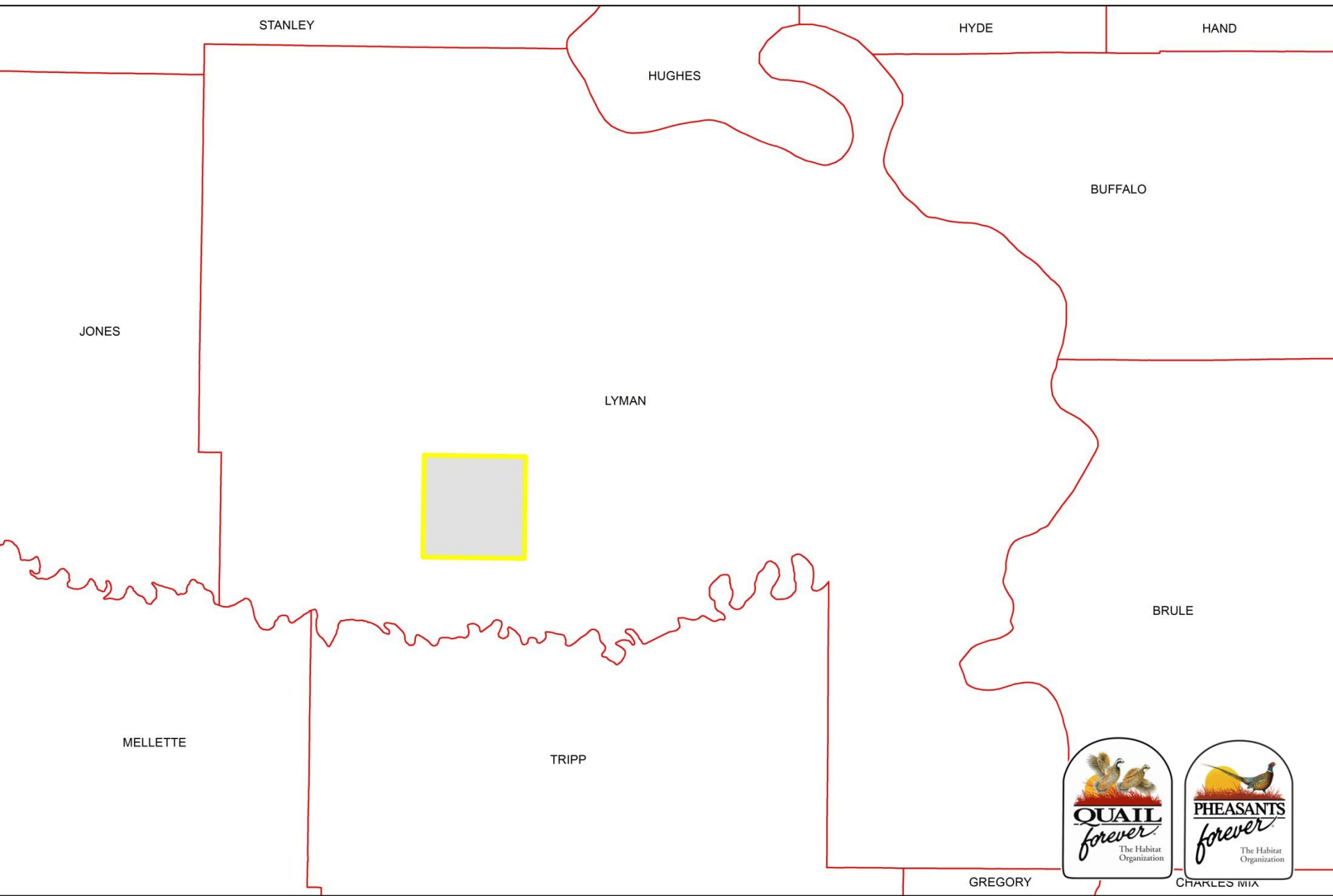


## Example 2: Liberty Township, Lyman County





# Example 2: Liberty Township, Lyman County





# Liberty Cropland Stats\*

\*2013 NASS: <http://nassgeodata.gmu.edu/CropScape/>

2007 Cropland Acres	
Crop	Acreage
Corn	979.5
Sorghum	1590.9
Soybeans	17
Sunflowers	720.7
Spring Wheat	213.9
Winter Wheat	7047.1
Oats	6.2
Millet	848.5
Safflower	0.8
Alfalfa	7.7
Peas	4.6
Fallow/Idle Cropland	444
Wetlands	0.8
Open Water	9.3
Developed/Open Space	1219
Developed/Low Intensity	101.5
Deciduous Forest	10.1
Grass/Pasture	12041.5
Woody Wetlands	108.5
Herbaceous Wetlands	12.4

2013 Cropland Acres	
Crop	Acreage
Corn	2177.5
Sorghum	4999
Soybeans	253.5
Sunflowers	2026
Barley	5.3
Spring Wheat	1209.8
Winter Wheat	1253.2
Dbl Crop WinWht/Soybeans	12
Oats	26.2
Millet	457.5
Canola	0.2
Alfalfa	19.6
Other Hay/Non Alfalfa	706.5
Peas	1.6
Sod/Grass Seed	0.4
Fallow/Idle Cropland	10.5
Open Water	13.3
Developed/Open Space	907.1
Developed/Low Intensity	111
Developed/Medium Intensity	1.3
Grass/Pasture	10417.9
Woody Wetlands	122.5
Herbaceous Wetlands	105.9
Dbl Crop WinWht/Corn	10.9
Dbl Crop WinWht/Sorghum	856.4





# DU: Winter Cereals Sustainability in Action



**Winter Cereals**

*Sustainability in Action*



Bayer CropScience



Ducks Unlimited Canada  
Conserving Canada's Wetlands



# DU: Winter Cereals

- Promote the Value of Winter Wheat in Cropping Systems
- Fund University Research for WW Varieties
- Research WW Agronomics'
- Support WW Growers with Education, Agronomic Advice and Recommendations
- Conduct Environmental Research to Ensure Sustainability
- Support the Commitment to Est. a Global Cereals Platform
- Evaluate the Use of WW Habitats by Wildlife

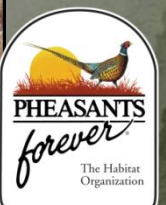


# DU: Winter Cereals

- Accomplishments
  - Education
    - 96 educational events
    - 4,500 producers
  - Research
    - Reestablished NDSU WW breeding program
    - Increased SDSU breeding program efficiency
    - Tested importance of:
      - Planting date, starter fertilizer, seed treatment, no-till, varieties on the profitability of an operation
  - Agronomics'
    - ND & SD growers have seen 14% bu/ac increase and set record yields since adopting program and variety's
    - Shown that adding WW to rotation (Corn/Soybean) at Dakota Lakes Research Farm boosted Soybean yields by 39%
  - Habitat
    - Found ducks nesting success is 24x higher in WW then spring planted cereals



# Game Production Area Plus (GPA+)





# GPA +

- Iowa
  - Tested in 2011
  - Failed due to no incentive funding for private lands projects = no landowner buy in
- GPA
  - Functions as Habitat Hub
  - Develop intense habitat & management plan on small isolated GPA's
  - Contract work through Adapt a GPA program
- Private Lands
  - Target marginal crop and grazing lands within 2 miles of targeted GPA
  - Provide on site visits by GFP private lands staff, NRCS Staff, and PF Farm Bill Biologists
  - Whole Farm Plan developed to find marginal lands ALONG with a farm plan for production ground
  - Marginal lands put into conservation acres
    - Utilize current USDA conservation programs
    - Utilize current Partners Program (USFWS)
    - Utilize current SD GFP private lands Program
    - Provide additional cost share and/or rental payment
    - Lands enrolled in Walk in Area program
  - Cropland/Pasture production maximized for landowner
    - Utilize EQIP program to make working lands acres more economically productive
      - Will Increase water quality, soil erosion, and decreased pesticide uses as side benefit
      - Plans developed by NRCS staff





# Questions?

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